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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/857,552	06/05/2001	Gary Robert Burg	FKL 2 089 (1	5024	
75	90 03/12/2004	EXAMINER			
Frederick K Lacher			FONTAINE, MONICA A		
Robert W Brown The Goodyear Tire & Rubber Company Pat Dept D 823			ART UNIT	PAPER NUMBER	
The Goodyear		1732			
Akron, OH 44	4316	DATE MAILED: 03/12/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

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· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		Application	No.	Applicant(s)				
Office Action Summary		09/857,552		BURG ET AL.				
		Examiner		Art Unit				
		Monica A For		1732				
The MAILING DATE Period for Reply	of this communication app	pears on the co	ver sheet with the c	orrespondence ac	ddress			
A SHORTENED STATUTC THE MAILING DATE OF T - Extensions of time may be available after SIX (6) MONTHS from the mai - If the period for reply specified abov - If NO period for reply is specified ab - Failure to reply within the set or extending the company reply received by the Office late earned patent term adjustment. See	HIS COMMUNICATION. under the provisions of 37 CFR 1.1 ling date of this communication. e is less than thirty (30) days, a replyove, the maximum statutory period vinded period for reply will, by statute r than three months after the mailing	36(a). In no event, I y within the statutory will apply and will ex o, cause the applicati	nowever, may a reply be tin minimum of thirty (30) day bire SIX (6) MONTHS from on to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).				
Status								
 1)⊠ Responsive to comm 2a)⊠ This action is FINAL. 3)□ Since this application closed in accordance 	2b)∐ This	action is non- nce except for	formal matters, pro		e merits is			
Disposition of Claims								
4a) Of the above clair 5) ☐ Claim(s) is/are 6) ☑ Claim(s) <u>1-12</u> is/are r 7) ☐ Claim(s) is/are	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Application Papers								
**	n <u>05 June 2001</u> is/are: a) est that any objection to the cheet(s) including the correct)⊠ accepted of drawing(s) be ho ion is required it	eld in abeyance. See the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	, ,			
Priority under 35 U.S.C. § 119								
2. Certified copies3. Copies of the capplication from		s have been re s have been re rity documents u (PCT Rule 17	ceived. ceived in Application have been receivee (2.2(a)).	on No ed in this National	Stage			
Attachment(s)								
1) Notice of References Cited (PTC 2) Notice of Draftsperson's Patent D 3) Information Disclosure Statemen Paper No(s)/Mail Date	rawing Review (PTO-948)	5) [Interview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:	te	D-152)			

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DETAILED ACTION

This office action is in response to the Amendment filed 15 January 2004.

All rejections in the paper mailed 15 September 2003 have been maintained, except for that of claim 2, which was amended. Although no new prior art has been applied, the rejection of the amended claim 2 is fully written in this office action for clarity of the record.

Claim Objections

Claim 2 is objected to because of the following informalities: The phrase ", said extruder nose" in line 3 (as amended) appears to be superfluous. Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claim 12 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for specific relationships between screw diameters at different sections, does not reasonably provide enablement for specific relationships between barrel diameters at different sections. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to carry out the invention commensurate in scope with these claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Rog (U.S. Patent 5,599,096), as stated in the paper mailed 15 September 2003.

Claims 2 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Rog (U.S. Patent 5,599,096).

Regarding Claim 2, Rog shows the apparatus as claimed as discussed in the rejection of Claim 1 (see paper mailed 15 September 2003), including that it is known to have an extruder wherein said extruder has an adjacent flow channel block with a converging tapered wall (Column 3, lines 29-40), said extruder further characterized by said screw nose having a downstream portion of decreasing diameter in said direction of flow providing a generally conical surface generally parallel to a converging tapered wall of an adjacent flow channel block for maintaining working engagement with the extrudate and maintaining the pressure on the extrudate at the discharge end (Figure 1, elements 36 and 44).

Regarding Claim 12, Rog shows the apparatus as claimed as discussed in the rejection of Claim 1 (see paper mailed 15 September 2003), including an extruder wherein an upstream portion of the barrel of said extruder has a diameter D1 and said downstream portion of said barrel of said extruder has a diameter D2, wherein D2 is less than or equal to D1 to maintain pressure on the extrudate (Figure 1; Column 3, lines 35-40).

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Response to Arguments

Applicant's arguments filed 15 January 2003 have been fully considered but they are not persuasive. Regarding Claims 1-11:

Applicants contend that Rog does not teach the instant invention because he does not show an extruder barrel whose diameter remains constant and then converges toward the discharge end of the barrel. This is not persuasive because a barrel with a constant diameter is not claimed. It is maintained by the examiner that Rog's barrel is cylindrical. Furthermore, a barrel having constant diameter is not described in the specification (It is noted that the flow head 14 is described as having generally constant sectional area, but this does not apply to the entire extrusion barrel.).

Applicants contend that Rog does not teach the instant invention because he does not teach using visco-elastomeric materials which have unique properties such as rubber in his apparatus. This is not persuasive because the limitation of a visco-elastomeric material is not contained in the independent claim. Furthermore, Rog's synthetic resinous material could be a visco-elastomeric material. Finally, the unique properties of visco-elastomeric materials are not claimed.

Applicants contend that Rog does not teach the instant invention because he does not teach a generally conical surface for decreasing a transition space between said screw nose and said cylindrical barrel. This is not persuasive because Rog clearly shows a tapering of the flow channel between the screw nose and the cylindrical barrel (Column 3, lines 29-40).

Applicants contend that Rog does not teach the instant invention because he does not teach a flow channel of constant cross section to maintain pressure on the molding material.

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This is not persuasive because Rog does teach a flow channel of general constant cross section to maintain pressure on the molding material (Figure 1, section B), which is what is currently claimed. The amount of variability which applicants grant the term "generally constant cross sectional area" is not clear, nor is it defined in the specification.

Applicants contend that Counceller does not teach what is claimed in claims 9 and 10, but he does not give any specific reasons. Applicant points out various details of Counceller's disclosure but does not relate them or declare the differences between Counceller and the instant claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica A Fontaine whose telephone number is 571-272-1198. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maf

February 28, 2004

MICHAEL COLAIANNI PRIMARY EXAMINER